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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/820,844	03/30/2001	Sadayuki Iwai	205379US0	7041
22850	7590 07/28/2004		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			FERGUSON, LAWRENCE D	
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			1774	
			DATE MAILED: 07/28/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

		A.				
	Application No.	Applicant(s)				
	09/820,844	IWAI, SADAYUKI				
Office Action Summary	Examiner	Art Unit				
	Lawrence D Ferguson	1774				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM						
THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period was precised to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 17 M.	ay 2004.					
2a) This action is FINAL . 2b) This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4) ⊠ Claim(s) 1-48 and 97-135 is/are pending in the 4a) Of the above claim(s) 1-48,97 and 98 is/are 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 99-135 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	withdrawn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examiner	r					
10)⊠ The drawing(s) filed on 30 March 2001 is/are: a		by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) □ All b) □ Some * c) ☑ None of: 1. ☑ Certified copies of the priority documents 2. □ Certified copies of the priority documents 3. □ Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary ((PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	xtent πρριτυατίστι (ΕΤΟ-192)				

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DETAILED ACTION

Response to Amendment

This action is in response to the amendment mailed May 17, 2004.
 Claims 49-96 were canceled and claims 99-135 were added rendering claims 1-48 and 97-135 pending with claims 1-48 and 97-98 withdrawn from consideration.

Claim Rejections - 35 USC § 103(a)

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 99-135 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka et al. (U.S. 5,978,638).

Tanaka discloses an image forming apparatus for forming a toner image by use of an intermediate transfer belt (abstract and column 3, lines 61-67) having a hardness (column 4, line 13). Tanaka discloses the image forming apparatus comprising an elastic layer of rubber (column 5, lines 1-3) and polyurethane material (column 8,line 43 and column 11,line 15). The reference discloses an elastic layer having a JIS-A hardness of 85° or less and a second layer having a thickness of 200 micrometers or less (column 8, lines 7-15) and the first layer has a thickness between 300 micrometers and 3000 micrometers (column 8, lines 19-20) where the covering layer (31) is formed

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on the elastic layer (30) (column 8, lines 7-10) where a third layer is formed on the second layer (column 8, lines 64-66). Although Tanaka is silent of Young's module of the second belt layer, the claimed Young's module is directly related to the specific belt used. Since Tanaka uses the same second layer as Applicant, the Young's module range of the second belt would be expected to be the same as claimed. In claims 99 and 118, the phrases "for forming a latent image" and for developing said latent image" are intended uses which are given little patentable weight in product claims. See In re Casey, 152 USPQ 235 (CCPA 1967) and In re Otto, 136 USPQ 458, 459 (CCPA 1963). In claims 99 and 118, the phrase "the method by which the transfer belt is prepared comprising: feeding a first raw liquid material into a hollow, cylindrical mold, which is included in a centrifugal molding machine, with said mold being rotated; curing the first raw material to thereby form a first endless belt layer on an inside of the mold; feeding a second raw liquid material into the mold with said mold being rotated, and then curing the liquid material to thereby form a second belt layer" introduces a process limitation to the product claim. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 777 F.2d 695, 698, 227 USPQ 964, 966. Further, process limitations are given no patentable weight in product claims.

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Response to Arguments

4. Arguments made in regards to rejection made under 35 U.S.C. 103(a) as being unpatentable over Tanaka et al. (U.S. 5,978,638) have been considered but are unpersuasive. Applicant argues layer 101 of the present belt does not correlate directly with layer 30 and layer 102 does not correlate with layer 31 of Tanaka. Layer 101 of the claimed invention is the first layer and layer 102 is the claimed second layer. Similarly the covering layer (31) of Tanaka is formed on the elastic layer (30) (column 8, lines 7-10) rendering layer (30) the first layer, which is capable of being formed on the outside of the second belt layer as shown in Applicant's figure 5. Applicant further argues there is no discussion of the particular problem described in the present case which the image transfer belt of the invention overcomes, which is directed to intended use. A recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. In a claim drawn to a process of making, the intended use must result in a manipulative difference as compared to the prior art. See In re Casey, 152 USPQ 235 (CCPA 1967) and In re Otto, 136 USPQ 458, 459 (CCPA 1963). Applicant notes an important parameter of covering layer 31 is its permittivity which is said to be less than or equal to 6, where permittivity is not claimed. Applicant claims an intermediate image transfer belt for an image forming apparatus that

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comprises various components. Because claims 99 and 118 use comprising language,

the cited claims do not exclude additional, unrecited elements. See M.P.E.P. 2111.03.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Lawrence Ferguson whose telephone number is 571-

272-1522. The examiner can normally be reached on Monday through Friday 9:00 AM

- 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Rena Dye, can be reached on 571-272-3186. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Lawrence Ferguson Patent Examiner AU 1774

B. HAMPLTON HESS PRIMARY EXAMINER

Brue Han